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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/439,915	11/12/1999	PETER SEITZ	PAFE.P-001US	2282	
21121 . 75	90 06/04/2004		EXAMI	NER	
OPPEDAHL AND LARSON LLP			WILSON, JACO	WILSON, JACQUELINE B	
P O BOX 5068 DILLON, CO 80435-5068			ART UNIT	PAPER NUMBER · ·	
2.22 0, 00			2612	100	
			DATE MAILED: 06/04/2004	10	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/439,915	SEITZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jacqueline Wilson	2612			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowa					
Disposition of Claims					
4) Claim(s) 1-6 and 11-24 is/are pending in the a 4a) Of the above claim(s) is/are withdra 5) Claim(s) 1-6 and 11-17 is/are allowed. 6) Claim(s) 18-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the lead rawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Specification

1. Claims 18-24 are objected to because of the following informalities:

The specification lacks antecedent basis for Claim 18. Claim 18 states "wherein during the longer exposure of one subset, steps (b) are performed for all other subsets". The specification fails to support this limitation of Claim 18.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 18-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The limitations of Claim 18 is not described in the specification in a way such that one having ordinary skill in the art would be able to make or use the invention without undo experimentation.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claims 18-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 18 states in step (a) "in two interrogation runs performed on a first subset of pixels...". Step (c) states "repeating steps (a) and (b) for at least one second subset of pixels; wherein during said longer exposure of one subset, steps (b) are performed for all other subsets". It is unclear as to which subset the applicant is referring. There is a first subset and a second subset. Clarification is requested indicating which subset is the "one subset" as well as "all other subsets". No art rejection is supplied

Allowable Subject Matter

Claims 1-17 are allowed.

Regarding Claim 1, the prior art neither teaches nor fairly suggests a method for forming an image by means of an image sensor with an active area containing a plurality of pixels, comprising the steps of: in two interrogation runs performed on a first subset of pixels, resetting the first subset of pixels, exposing the first subset of pixels and reading out the output values of the first subset of pixels, wherein the two interrogation runs, a longer exposure and a shorter exposure are performed, combining the output values into a first combined output value by means of a merging function which is truly monotonic, continuous and continuously differentiable in all the output values, wherein

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the merging function has the following properties: preference is given to the output value obtained from the longer exposure when the output values or a combination of the output values lie beneath given lower limit, preference is given to the output value obtained from the shorter exposure when the output values or a combination of the output values lie above a given upper limit, the merging function increases truly monotonically in the output values when the output values lie between the lower limit and the upper limit, and repeating steps (a) and (b) for at least one second subset of pixels, as claimed in Claim 1.

Claim 11 is substantially similar to Claim 1.

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline Wilson whose telephone number is (703) 308-5080. The examiner can normally be reached on 8:30am-5:00pm (alternate Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on (703) 305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JBW 05/25/04

WENDY R. GARBER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600